	Application No.	Applicant(s)
	10/648,533	EDWARDS, JATHAN D.
Notice of Allowability	Examiner	Art Unit
	Paul Huber	2653
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this apported or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the amendment and to</u>	<u>erminal disclaimer filed December 9</u>	<u>), 2004</u> .
2. 🖾 The allowed claim(s) is/are <u>1, 2 & 4-20 (renumbered as cla</u>	ims 1, 2, 4, 5, 3 & 6-19, respectively	<u>()</u> .
3. The drawings filed on 25 August 2003 are accepted by the	Examiner.	
4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give (a) ☐ including changes required by the Notice of Draftsperson (a) ☐ including changes required by the attached Examiner's Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the case of the priority and the depose the priority and the depose the priority and the depose the priority documents have a constant as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the priority and the depose the priority documents have a constant as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the depose the priority documents have a constant and the priority documents have a constan	been received. been received in Application No cuments have been received in this of this communication to file a reply ENT of this application. tted. Note the attached EXAMINER as reason(s) why the oath or declara t be submitted. on's Patent Drawing Review (PTO- c Amendment / Comment or in the Comment of the drawing the header according to 37 CFR 1.121(c)	national stage application from the complying with the requirements 'S AMENDMENT or NOTICE OF tion is deficient. 948) attached Office action of the back of di.
attached Examiner's comment regarding REQUIREMENT F		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Informal B	atent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	,,
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	Paper No./Mail Dat B), 7. ⊠ Examiner's Amendr	te nent/Comment
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material		Paul Huber Primary Examiner Art Unit: 2653

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EXAMINER'S AMENDMENT & REASONS FOR ALLOWANCE

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the specification, page 1, between the title and the first paragraph, the following was inserted:

-- This application is a continuation of U.S. Patent Application Serial No. 09/813,065, now U.S. Patent No. 6,625,100. --

The following is an examiner's statement of reasons for allowance: the prior art of record considered as a whole fails to teach or suggest a holographic data storage medium comprising: a first substrate portion; a second substrate portion; a holographic recording material sandwiched between the first and second substrate portions; and an optical detectable tracking pattern formed on a surface of at least one of the substrate portions, further wherein:

- 1) the optically detectable tracking pattern comprises a pattern formed on the surface of at least one of the substrate portions to define a periodic cycle of grating period; or
- the optically detectable tracking pattern comprises a grating pattern formed on the surface of at least one of the substrate portions to define stepped changes in grating period; or
- 3) the optically detectable tracking pattern is defined by at least two grating patterns formed on the surface of at least one of the substrate portions to define a beat frequency.

The prior art of record further fails to teach or suggest a holographic data storage system comprising: a holographic medium comprising a first substrate portion, a second substrate portion, a holographic recording material sandwiched between the first and second substrate portions, and an optical detectable tracking pattern formed on a surface of at least one of the substrate portions, a reference beam to reconstruct a hologram stored in the holographic recording material, and a probe beam to diffract off the optically detectable tracking pattern.

The prior art of record further fails to teach or suggest a method of determining a location on a holographic medium including a substrate and a holographic recording material comprising: interrogating the holographic medium with a probe beam, wherein the holographic recording material of the holographic medium is insensitive to the probe beam; and detecting diffracted light associated with

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the probe beam, the diffracted light be diffracted by a substrate of the medium to indicate a position on the medium. Bold language emphasized.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Huber whose telephone number is 703-308-1549.

Primary Examiner
Art Unit 2653

pwh March 4, 2005